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+ DRI ICA TION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO. 09/778,258	02/07/2001	Shigeto Inui	14309	6365
23389	7590 02/06/2004		EXAMINER	
SCULLY SO	COTT MURPHY & PRE	NGO, CHUONG D		
400 GARDEN CITY PLAZA GARDEN CITY, NY 11530			ART UNIT	PAPER NUMBER
GARDEN CHT, NT 11330			2124	\sim
			DATE MAILED: 02/06/2004	1 4

Please find below and/or attached an Office communication concerning this application or proceeding.

*	Application No.	Applicant(s)				
Office Action Summer	09/778,258	INUI, SHIGETO				
Office Action Summary	Examiner	Art Unit				
	Chuong D Ngo	2124				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)⊠ Responsive to communication(s) filed on <u>2/7/0</u>	01 3/15/01 & 11/3/03					
	action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. §§ 119 and 120						
 12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 						
Attachment(s)						
1) ☑ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152) 3) ☑ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 5 6 ☐ Other: 60 ☐ Other:						

Application/Control Number: 09/778,258

Art Unit: 2124

DETAILED ACTION

- 1. The abstract of the disclosure is objected to because it is not within a single paragraph.

 Correction is required. See MPEP § 608.01(b).
- 2. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 1, the recitation "a range of $1/2^k$ or more and less than $1/2^{k+1}$ ", lines 3-4, is indefinite since $1/2^k > 1/2^{k+1}$. Claim 3 also has the same problem.

As per claim 2, the recitation "a range of $5/3 \times 1/2^k$ or more and less than $3/4 \times 1/2^k$ ", lines 3-4, is indefinite since $5/3 \times 1/2^k > 3/4 \times 1/2$. Claim 4 also has the same problem.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1 and 3 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by applicant's admission of prior art disclosed in figures 4 and 5 of the instant application.

Application/Control Number: 09/778,258 Page 3

Art Unit: 2124

The admitted prior art in figures 4 and 5 clearly show a divider having a scaling factor generating section (11), a multiplying section (21,31), a divisor tripled-number generating section (41) a repetitive operating section (51) for producing a quotient, as shown in figure 5, by generating and referring to high-order of 4-bit partial remainder ([0]-[3]) as claimed.

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Steele, Jr., 5,910,910.
 - b. Sheaffer, 5,818,745.
 - c. Chung, 5,777,917.
 - d. Stearns, 4,949,295.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D Ngo whose telephone number is (703) 305-9764. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 309-9662. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Application/Control Number: 09/778,258

Art Unit: 2124

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Page 4

Chuong D Ngo Primary Examiner Art Unit 2124

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